

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 10967 (1984): Guide for the preparation of variant drawings [PGD 24: Drawings]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

GUIDE FOR THE PREPARATION OF VARIANT DRAWINGS

1. Scope — Lays down the method for the preparation of variant drawing.

1.1 For definition, reference should be made to IS : 8930 - 1978 'Nomenclature for general engineering drawings'.

2. Types of Variant Drawings

- Variant drawings for components, and
- Variant drawings for assembly.

3. Variant to be Considered — The variant drawing shall be prepared with the following variants:

- a) Dimensions,
- b) Material/semi-finished material,
- c) Surface finish,
- d) Manufacturing instructions or production process,
- e) Right-hand and left-hand variants, and
- f) Change in components.

3.1 For dimensions where variables exceed 3, use of pre-printed form is recommended.

3.2 Against each identification number only one variant or size shall be represented.

3 3 Each variant, such as dimension, surface finish, material, or right- and left-hand versions, requires separate identification numbers.

3.4 Each variant dimension shall be designated by an alphabet. The variant sizes shall be tabulated in a table against each identification number in accordance with Fig. 1.

3.5 The alphabet designations of each variant dimensions shall be appropriately indicated at the bottom of the table in such a way that further additions are easier.

4. Variant Drawings for Components — In this variant drawings for components with identical shapes but different sizes, the representation of the components shall be to scale.

Example of a variant drawing of identical shape with different sizes is illustrated in Fig. 1.

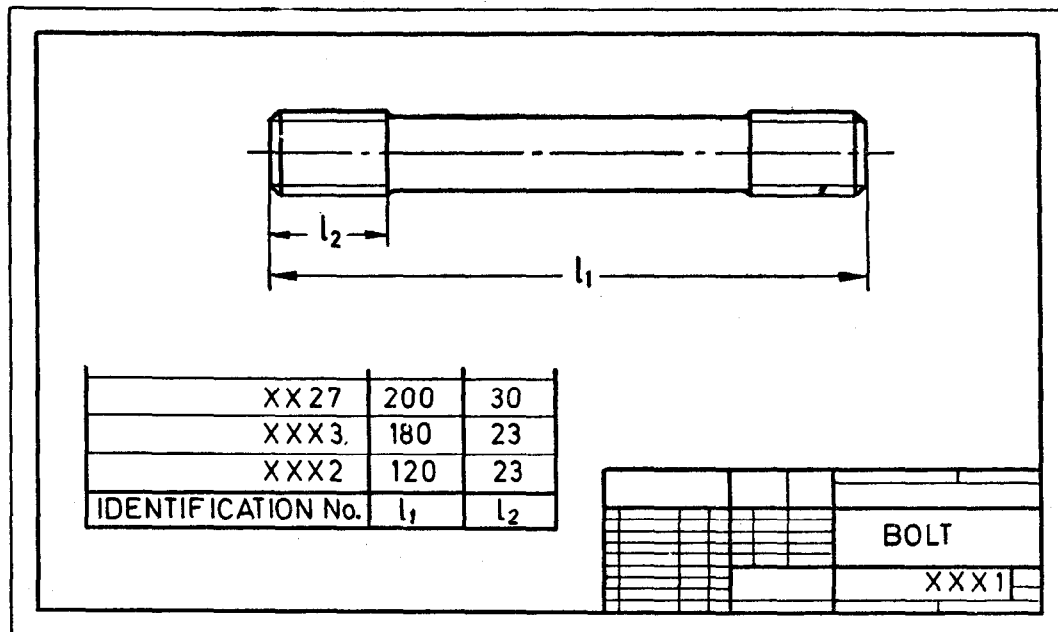


FIG. 1 VARIANT DRAWING OF IDENTICAL SHAPE

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4.1 Variant Drawing for Assembly — In a variant drawing for sub-assembly and assemblies, or products which differ from each other only in minor details may be represented. The assembly or product may consist of a number of parts. This may be constructed to different versions and each version shall have only one identification number. For assemblies, necessary part list may be prepared.

Example of a variant drawing for similar assemblies is illustrated in Fig. 2.

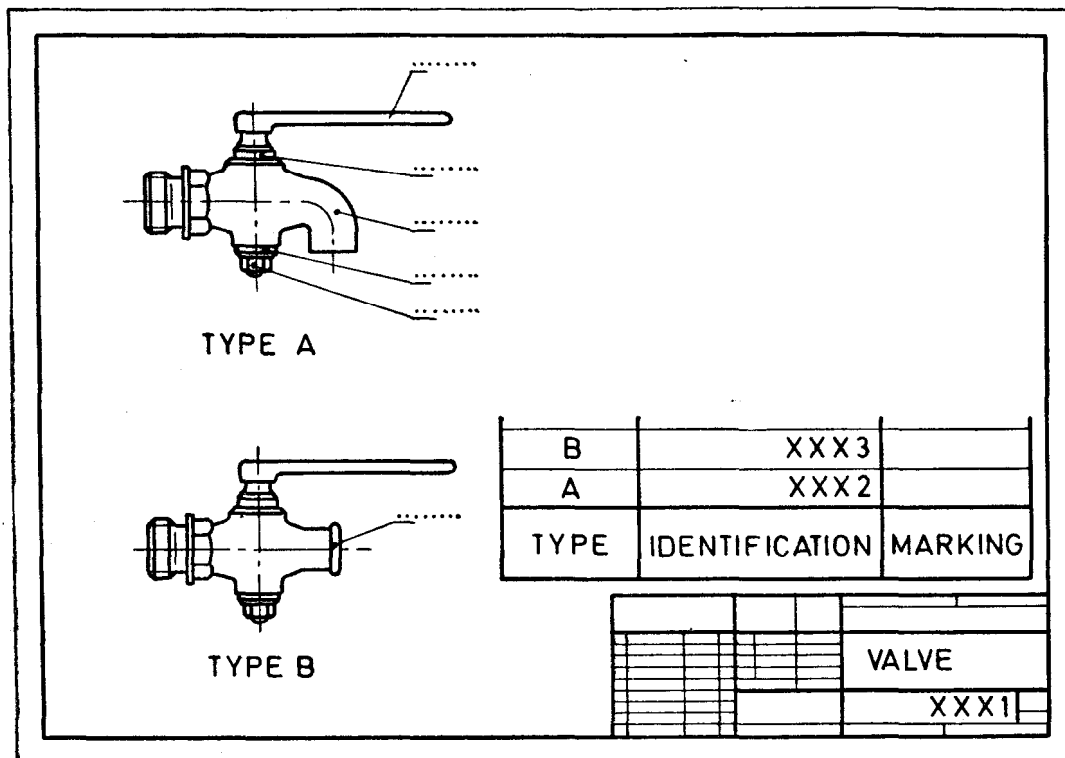


FIG. 2 VARIANT DRAWING FOR SIMILAR ASSEMBLIES

EXPLANATORY NOTE

Varlants of different sizes of a single component or of an assembly which differ from each other in only minor details or in just few dimensions could be drawn in the form of variant drawing (see 2.4.7 of IS : 8930 - 1978). The variable dimensions are designated by letters. Each variant or size represented may be identified with an identification number. The variable dimensions are included in the table (see Fig. 1).

Where the variants exceed 3, it is desirable to use pre-printed drawings.

This standard is based on and is in conformity with DIN 30 - 1975 Part 6 'Simplified representation in technical documents; compilation, drawing, directions for preparing'.